Projecteur

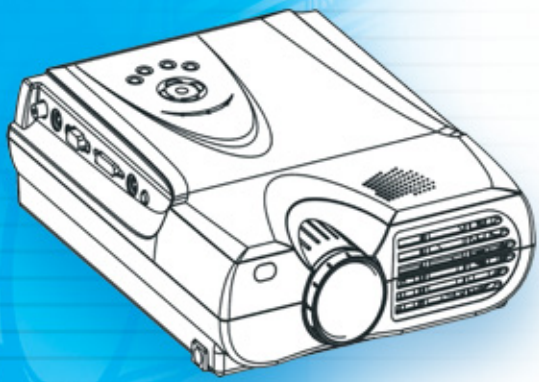
Projector

Projektor

Proyector

# Micro Portable LCD Projector

# USER'S MANUAL



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# Overview

## Features

- 2.7kgs Micro-Portable projector.
- High Brightness with high Contrast ratio, total power consumption 220 W.
- A wide variety of External Connections available for D-Sub 15 pin, S-Video, RCA composite signal and DVI Input（XGA Type）.
- Good Compatibility：horizontal scanning frequency from 15 to 90KHz, and vertical scanning frequency from 43 to 85Hz , VGA to SXGA Signals.
- Short projection distance for Big image size.
  Projection distance 1.33m～8.33m with screen size from 40”to 200”.
- Powerful functions：Keystone correction function、freeze and blank function 、Digital zoom adjustment and PIP(Picture In Picture) function.
- Remote controller with Track Ball Mouse function and Laser Pointer function.

## Warnings

- While projector is working, don’t look into the lens to avoid harm of eyes.
- Do not use projector near heater or water.
- While projector is working, make sure that there is no barrier to the heat dissipation holes of the front and rear side of projector.
- Do not use multiplex socket, to avoid overload or short circuit.
- The lamp of the projector is high voltage mercury lamp, which needs specific driving circuit. Please use the specific lamp provided by your dealer.
- Never let water or other things splash into the heat dissipation holes.
- To shut down the projector, when you press the Power key, a message will show on the image asking if you’re sure you’d like to shut down, press Power key again to proceed the heat dissipation and shut down procedure.
- Do not turn off the power without using the heat dissipation and shut down procedure. You must wait until the cooling fun stop. If the machine is not to be used for a long time, the power plug must be pulled off to avoid danger.
- No further dismantle of the projector except listing in the operation manual.
- When cleaning filter sponge, please use vacuum cleaner than water to avoid moisture entering the projector.
- When replacing the lamp module, please wait for the lamp cool down.
- When changing the lamp module, do not touch the glass in front of the lamp. It will effect the lamp life.

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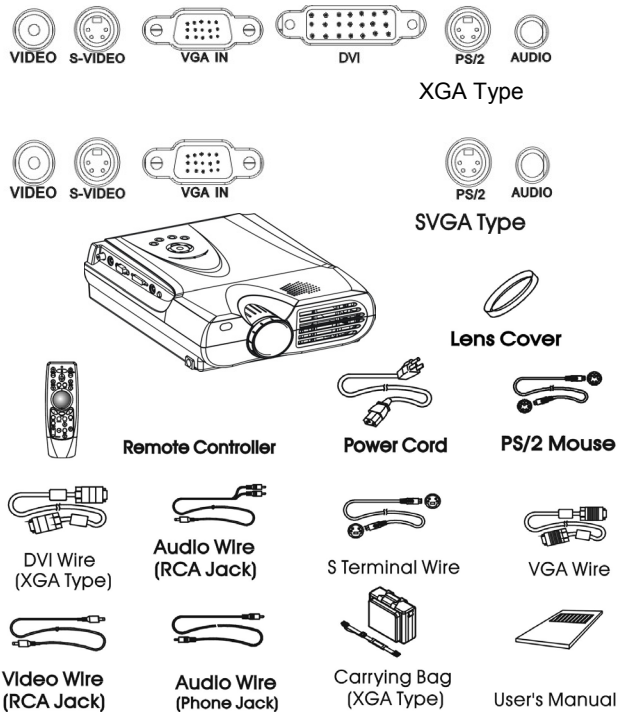
# Checking the Accessories

## Standard Accessories

- Projector
- Lens Cover
- Power Cord
- Remote Controller
- No.4 AAA Battery x 2
- Audio Wire-Phone Jack
- S-Video Wire
- D-Sub 15pin Cable
- Audio Wire-RCA Jack
- DVI Interface connecting wire（XGA Type）
- Video Wire-RCA Jack
- PS/2 Mouse connecting wire
- User's Manual
- Carrying bag for projector and accessories（XGA Type）




## Optional Accessories

- Spare Lamp
- Sponge for air filter

You can perchance these spare accessories from your dealer.

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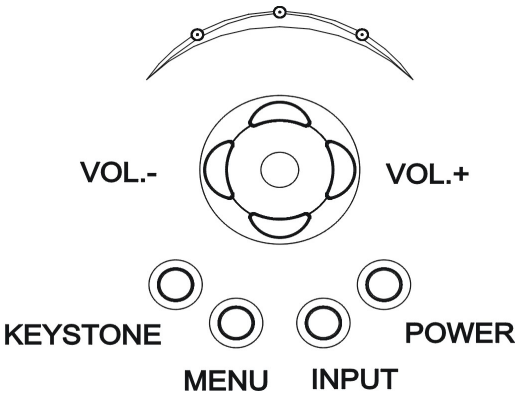
# Definitions of Keys and Indicators

## Remote Controller

## Keys of Control Panel

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## Definitions of Indicators

| | ◎Red | ◎Green | ◎Orange | Meaning |
|---|---|---|---|---|
| Normal Indicator | Off | On | Off | Standby Mode |
| | Off | Off | On | Normal Working Mode |
| | Off | Alternate Flash per second | | Heat Dissipating |
| Abnormal Indicator | Flash | Off | On | Abnormal Fan（Heat Dissipating） |
| | Flash | Off | Off | Abnormal Fan |
| | Off | Off | Off | No Power |

## Definitions of key functions

| Key | Function (Under normal working mode) |
|---|---|
| Power | ● Press Power button to turn on the projector.<br>● Press Power button twice to shut down the projector. |
| Menu | ● Press Menu button to bring up the OSD menu. |
| Exit | ● Press Exit button to leave OSD menu. |
| Input | ● Select input signal of VGA、S-Video、AV or DVI（XGA Type）in sequence. |
| Keystone | ● Adjust Shape of Image from keystone to square. |
| Volume | ● Adjust the volume. |
| Laser | ● Laser Pointer. |
| Auto | ● Auto adjust the image quality (Only on VGA mode). |
| L/R | ● L : Left click of the mouse. R : Right click of the mouse. |
| Track ball | ● Use the track ball to move the cursor, press the track ball to active the drag function. |
| Mute | ● Press Mute key for Sound Off，sound On when you press again. |
| Black | ● Press Black key to let the image blank, press again when you want the image show again. |
| Freeze | ● Press the Freeze Key to let the image freeze(stop) in a picture, press again when you want to continue. |
| Enlarge | ● Press the Enlarge Key and press +/- key to enlarge or reduce the Image press ↑ ↓ → ← to move the image. |
| Source | ● Switch the sub picture as AV input or S-Video input. |
| PIP | ● Picture in Picture Function. |

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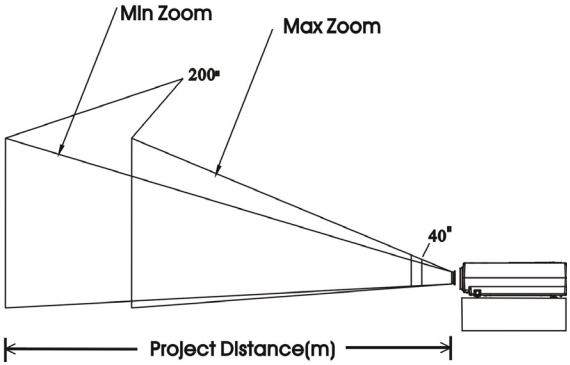
# Setting Up

## Locations for Setting Up

- Projector shall be placed on steady desktop or use specific tooling to hand on solid ceiling.
- Adjust projector so the lens is perpendicular to screen, otherwise, the image on screen will have trapezoidal shape.




Projection Distance /Size Table

| Projection Size/inch | Project Distance /m Max Zoom | Project Distance/m Min Zoom |
|---|---|---|
| 40” | 1.33 | 1.67 |
| 50” | 1.67 | 2.08 |
| 60” | 2.00 | 2.50 |
| 100” | 3.33 | 4.17 |
| 150 | 5.00 | 6.25 |
| 200” | 6.67 | 8.33 |

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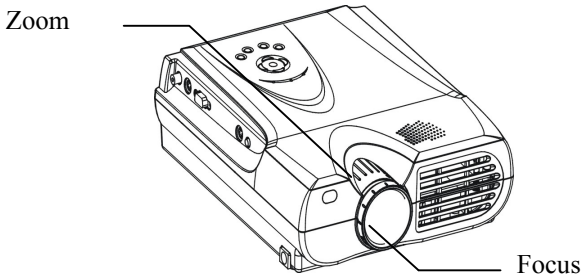
## Zoom, Focus and Height Adjustment

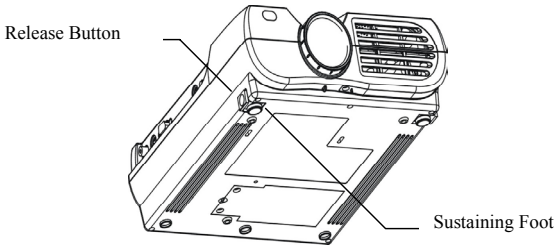
### Focus , Magnitude Adjustment

- When the image appears on the screen, use these functions to focus and adjust screen alignment.
- Actual projected display size depends on the distance between the projector and the screen, as well as the magnitude of projector lens.
- Focus adjustment：Turn the focusing ring of the lens, which is the outer ring at the lens in front side of projector.
- Size adjustment：Turn the inner side zoom ring, increase when clockwise.




### Adjustment for Height and Deformation of Projection

- Stand behind the projector and raise up the forward projector with both hands, then press the release button to lower the elevating feet.
- Free the release button to lock the sustaining foot and set the projector down carefully.
- Be careful when operating and keep the projector from dropping.

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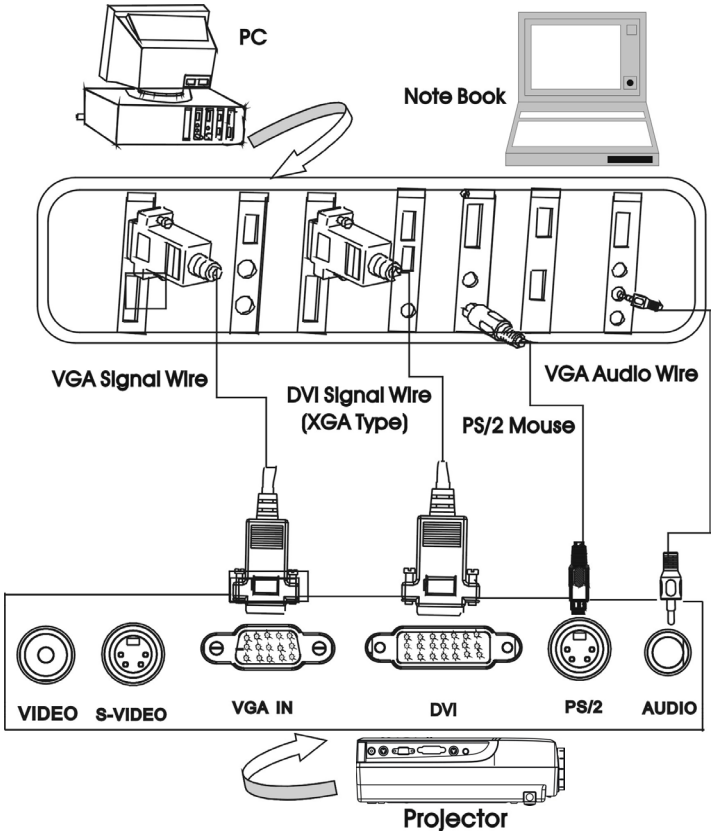
# External Connections

## Connecting to PC

- Connect the D-Sub 15 pin cable from the VGA card of the computer into the VGA IN terminal of the projector .
- Mark sure that both parts have a good connection.
- Turn on projector first then computer.

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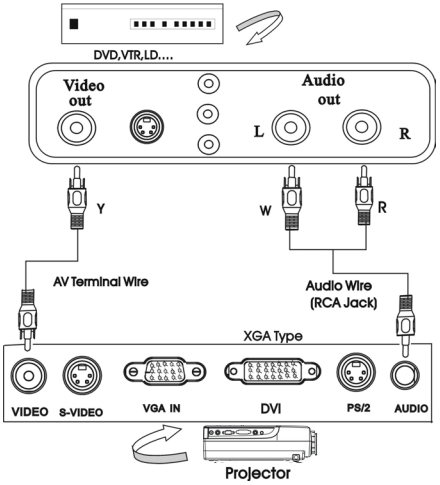
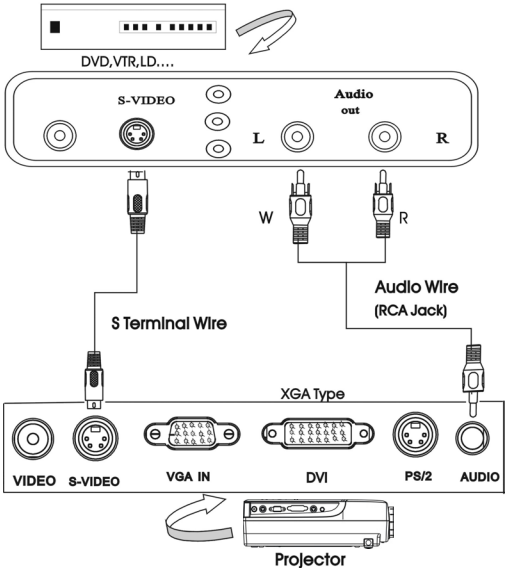
## Connecting to Video Signals

- Connecting to video signal sources such as VTR , DVD or LD.
- The method for connecting RCA jack AV wire is shown below




- The method for connecting S-Video Wire is shown below



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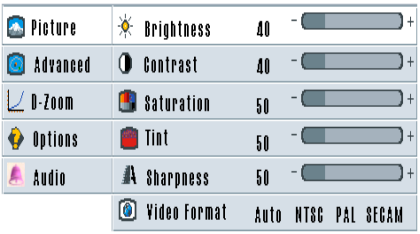
## OSD (On Screen Display) Manu

### Display/Exit OSD Menu

- Press MENU key to display the main menu.
- The contents of main menu are different according to various input signals which are shown as the following：
- Press EXIT key to Exit the main menu.

Input signals of VGA or DVI（XGAType）

Input signals of AV or S -VIDEO




### Image Quality Adjustment

- After displaying main menu, press ↑↓ key to move Bar to “Picture ”
- Press → key to enter sub menu.
- Press ↑ ↓ key to move Bar to the option which needs to be adjusted .
- Press → ← key to set the value and press MENU key to return to main menu.
- Press EXIT key to exit the menu and save the setting.
- The “Adjust Option” is different according to various input signals which are shown as the following：

| Options | The instruction |
|---|---|
| Brightness | To adjust the brightness value of the image . |
| Contrast | To adjust the contrast of image (higher value means high contrast) |
| H position | To adjust the horizontal position |
| V position | To adjust the vertical position |
| Phase | To adjust the Phase value of the image. |
| Clock | To adjust the Clock value of the image. |
| Auto Tune | To adjust the Phase and Clock Automatically. |
| Saturation | To adjust color saturation |
| Tint | To adjust the Tint |
| Sharpness | To adjust the Sharpness of the image. |
| Video | To select input signal as Auto、NTSC、PAL or SECAM format. |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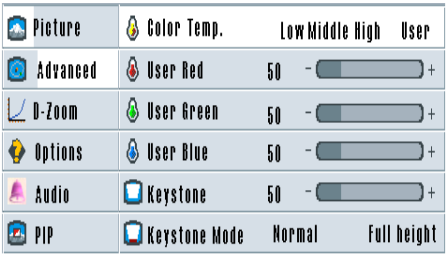
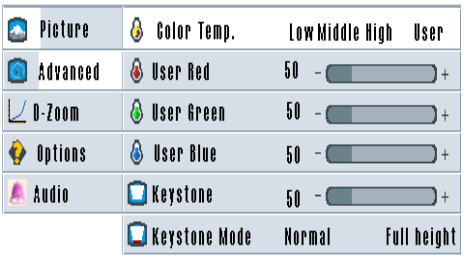
## Advanced Setting Adjustment

- After displaying OSD menu, press ↑↓ key to move the Bar to "Advanced "
- Press → key to enter sub menu.
- Press ↑↓ key to move Bar to the option which needs to be adjusted .
- Press → ← key to set the value and press MENU key to return to main menu.
- Press EXIT key to exit the menu and save the setting.
- The adjustment option are shown below：

Input signals of VGA or DVI（**XGAType**）




Input signals of AV or S-VIDEO




| Options | The instruction |
|---|---|
| Color Temp | To adjust color temperature of image to personal performance. (Normal temp value is Middle) For cool color, select higher Color Temperature, for warm color, select lower Color Temp. |
| Keystone | Compensating the trapezoid distorted images up to ± 15 degrees. (Normal value is 50) |
| Keystone Mode | To select to Normal or Full Height mode.<br>Under Full Height mode, only the horizontal size of keystone will accompany keystone adjustment. |

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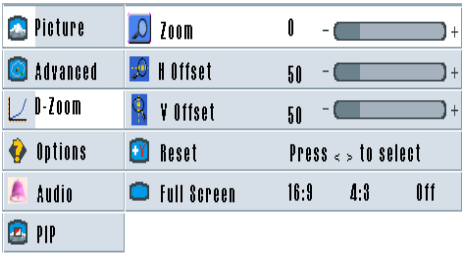
## Advanced Scale Adjustment (Digital Zoom)

- After displaying OSD menu, press ↑ ↓ key to move the Bar to "Adv. Scale ".
- Press → key to enter sub menu.
- Press ↑ ↓ key to move Bar to the option which needs to be adjusted.
- Press → ← key to set the value and press MENU key to return to main menu.
- Press EXIT key to exit the menu and save the value.
- The options to be adjusted are shown as the following：

Input signals of VGA or DVI（XGAType）




Input signals of AV or S-VIDEO

| Adjust options | The instruction |
|---|---|
| Zoom | Digital zoom |
| H offset | After zooming, display screen can be moved horizontally. |
| V offset | After zooming, display screen can be moved vertically |
| Full Screen | To adjust the image into full screen or 16:9 or 4:3 |

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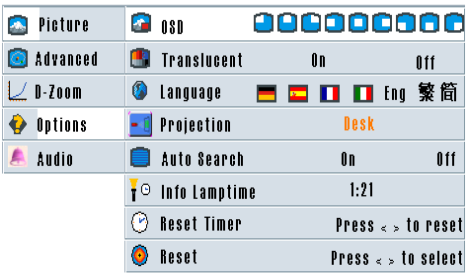
## Options

- ●After display Main-menu，press ↑↓ key to move Bar to “Options ”
- ●Press → key to enter sub-Menu.
- ●Press ↑↓ key to move Bar to the option which needs to be adjusted.
- ●Press → ← key to set value and press MENU key to return to main menu.
- ●Press EXIT key to exit the menu and save the value.
- ●The option to be adjusted as the following：

Input signals of VGA or DVI（**XGAType**）

Input signals of AV or S-VIDEO




| Options | The instruction |
|---|---|
| OSD | To select OSD position on screen. |
| Translucent | To select OSD Translucent function for on or off. |
| Language | To select language for English、French、German、Italian、Esperanto、簡体、繁體. |
| Projection | Press → ← key to select Projection for Desk、Ceiling、Rear or Rear Ceiling. |
| Auto Search | To select Auto Input Signal Search for on or off. |
| Factory Reset | To return all parameters to factory default value |
| Lamp Timer | To show the accumulation of the working time for lamp module |

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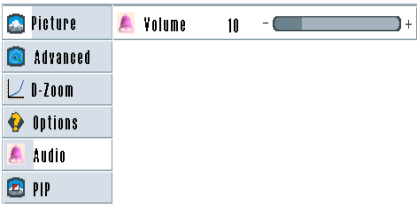
## Audio Adjustment

- After displaying main menu，press ↑↓ key to move Bar to “Audio ” .
- Press → key to enter sub menu.
- Press↑↓ key to move Bar to the option which is about adjusted.
- Press → ← key to set the value and press MENU key to return to main menu.
- Press EXIT key to hide the menu and save the set value.
- The options to be adjusted are shown as the following：

Input signals of VGA or DVI（**XGAType**）

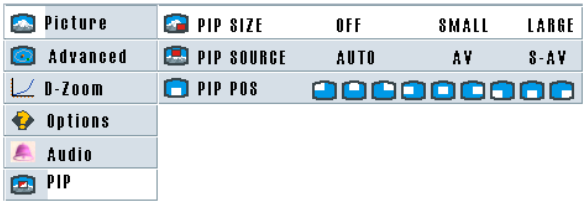



Input signals of AV or S-VIDEO

| Adjust options | The instruction |
|---|---|
| Volume | To adjust the volume of speaker |

## PIP Adjustment

- After displaying main menu，press ↑↓ key to move Bar to “PIP ” .
- Press → key to enter sub menu.
- Press ↑ ↓ key to move Bar to the option which is about adjusted.
- Press → ← key to set the value and press MENU key to return to main menu.
- Press EXIT key to hide the menu and save the set value.
- The options to be adjusted are shown as the following：




| Adjust options | The instruction |
|---|---|
| PIP SIZE | To adjust the size of sub picture. |
| PIP SOURCE | To choose the signal source with AV or S-Video |
| PIP POS | To choose the position of sub picture |

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# Maintenance

## Handling of Abnormality

### Abnormality of Indicators

- When Red indicator is on, it means the heat dissipation or fan is at fault, please contact with your dealer.
- If there is No indicator on, please check whether the power cord connect properly. If it still doesn't work, please contact with your dealer.

### Abnormality of Lighting-up Lamp

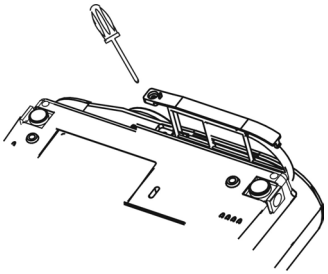
- When the red indicator is flashing and orange indicator is on , it's abnormal and possibly due to damaged lamp or unstable voltage , just turn off Projector and restart again. If it still doesn't work, please contact with your dealer.

### Cleaning the Projector

- Un-plug the power of projector before cleaning. Clean with a non-cotton dry cloth or with slight water and neutral detergent if necessary.

### Cleaning of Air Filter

- Turn off the projector and un-plug the power.
- Use star type screwdriver to loosen the screw and take the filter out.
- Clean the filter
- If the filter is hard to clean and need to replace a new one, please contact with your dealer.
- When cleaning filter sponge , please use vacuum cleaner than water to avoid moisture entering the projector. We recommend you to clean Projector every 100 working hours.



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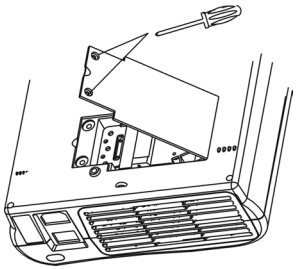
# Replacing Main Lamp

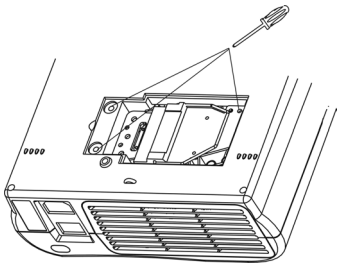
## Replacing Lamp Module

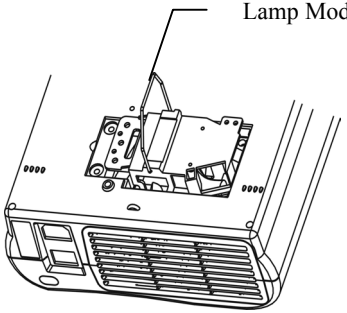
- When the red indicator is flashing and the lamp doesn't lighting up, the lamp source might abnormal or burn out.
- When the projection image is too dark, or the projection image is unstable and flashing , please change the lamp.
- Please use specific lamp module provided by your local dealer.

- Turn off projector and unplug power cord.
- Loosen the 2 screws of the cap of lamp module.
- You need to find a special star type screwdriver.



- When screws are loosed, take off the cap of lamp module.
- Loosen the 3 screws placed on the lamp module.
- Pull up the handle of the lamp module and pull the lamp module out of projector






- Install the new lamp module provided by your dealer into the projector.
- Fasten the 3 screws of the lamp module.
- Install the cap of lamp module then fasten 2 screws of the cap.

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# Appendix

## Compatible Modes

| Resolution | V. Frequency | H. Frequency | Resolution | V. Frequency | H. Frequency |
|---|---|---|---|---|---|
| 720 × 420 | 70Hz | 31.5KHz | 1152 ×864 | 60Hz | 54.3KHz |
| 640 × 350 | 70Hz | 31.5KHz | 1152 ×864 | 70Hz | 63.9KHz |
| 720 × 400 | 85Hz | 37.9KHz | 1152 ×864 | 70Hz | 64KHz |
| 640 × 350 | 85Hz | 37.9KHz | 1152 ×864 | 75Hz | 67.5KHz |
| 640 × 480 | 60Hz | 31.5KHz | 1152 ×864 | 85Hz | 77.1KHz |
| 640 × 480 | 67Hz | 35KHz | 1280 ×960 | 60Hz | 60KHz |
| 640 × 480 | 72Hz | 37.9KHz | 1280 ×960 | 75Hz | 75.93KHz |
| 640 × 480 | 75Hz | 37.5KHz | 1280 ×960 | 85Hz | 85.93KHz |
| 640 × 480 | 85Hz | 43.3KHz | 1280 ×1024 | 43Hz | 46.6KHz |
| 640 × 400 | 70Hz | 31.5KHz | 1280 ×1024 | 60Hz | 64KHz |
| 640 × 400 | 85Hz | 37.9KHz | 1280 ×1024 | 74Hz | 78.8KHz |
| 800 × 600 | 56Hz | 35.2KHz | 1280 ×1024 | 75Hz | 79KHz |
| 800 × 600 | 60Hz | 37.9KHz | MAC-13LC | 67Hz | 35KHz |
| 800 × 600 | 72Hz | 48.1KHz | MAC-15 | 75Hz | 68.7KHz |
| 800 × 600 | 75Hz | 46.9KHz | MAC-16 | 75Hz | 49.1KHz |
| 800 × 600 | 85Hz | 53.7KHz | MAC-19 | 75Hz | 60.2KHz |
| 832 × 624 | 75Hz | 49.7KHz | MAC-1960 | 60Hz | 48.2KHz |
| 1024 ×768 | 43Hz | 35.5KHz | | | |
| 1024 ×768 | 60Hz | 48.4KHz | | | |
| 1024 ×768 | 70Hz | 56.5KHz | | | |
| 1024 ×768 | 72Hz | 57.8KHz | | | |
| 1024 ×768 | 75Hz | 60.0KHz | | | |
| 1024 ×768 | 85Hz | 68.7KHz | | | |

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